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PROGRAM

Friday, April 13

- 9:30 a.m. to
2:30 p.m. Registration, American Studies Building.
- 10:45 a.m. Business Meeting, Auditorium in American Studies Building.
- 12:00 Noon Luncheon.
- 1:15 p.m. Science Education Section, Bible Building.
- 2:30 p.m. to
4:30 p.m. Section Meetings.
- 6:00 p.m. Banquet, College Cafeteria.
- 7:00 p.m. Science Fair Awards, College Cafeteria.
- 8:00 p.m. Address, Large Auditorium of Administration Building. "Research Problems and Fitness for the Space Age," R. T. Clark, Vice-President of Oklahoma City University and Director of the Cooperative Program with M.I.T.
- 7:00 p.m. to
10:00 p.m. Science Fair Exhibits, Rhodes Field House.
- 9:00 p.m. Science Films, Bible Building.

Saturday, April 14

- 8:45 a.m. Business Meeting, Small Auditorium of Administration Building. Treasurer's report and reports of standing committees and special committees. Election of officers. Location of next year's meeting. New business. Installation of officers.
- 10:00 a.m. General Session with the Junior and Collegiate Academies, Large Auditorium of Administration Building. Papers by Science Talent Search Winners. L. J. Paulissen, Director of State Science Talent Search, in charge.

Arkansas Academy of Science Proceedings

SECTIONAL PROGRAM

Biology and Agriculture

Chairman: D. A. Slack

University of Arkansas

SOME EFFECTS OF IONIZING RADIATION ON THE ORAL SUCKERS OF *RANA PIPIENS* EMBRYO. Charles C. Reed, Little Rock University.

STUDIES ON THE LIFE HISTORY OF THE SOYBEAN-CYST NEMATODE, *HETERODERA GLYCINES*. D. A. Slack, University of Arkansas.

A REVIEW OF SOME RARE ARKANSAS PLANTS — ENDEMIC AND DISJUNCT. Dwight M. Moore, Arkansas Polytechnic College.

A LIST OF THE SMUT FUNGI OF ARKANSAS. G. E. Templeton, University of Arkansas.

STUDIES ON THE LIFE HISTORY OF THE RICE LEAF SMUT ORGANISM, *ENTYLOMA ORYZAE*. A. Worawisitthumrong and G. E. Templeton, University of Arkansas.

A NEW VARIETY OF *LAMIUM AMPLEXICAULE*. Dwight M. Moore, Arkansas Polytechnic College.

A PRELIMINARY SURVEY OF LITTLE RED RIVER. W. R. Rushton, Harding College.

Chemistry

Chairman: W. D. Williams

Harding College

Division A.

X-RAY DIFFRACTION STUDIES OF AQUEOUS SOLUTIONS. Richard Lawrence and Robert F. Kruh, University of Arkansas.

CRITICAL TEMPERATURES AND DENSITIES OF THE $\text{SO}_3\text{H}_2\text{O}$ SYSTEM. John E. Stuckey and C. H. Secoy, Hendrix College.

A FAR INFRARED STUDY OF THE SPECTRA OF SEVERAL COBALT - NITROGEN COORDINATION COMPLEXES. Allan B. Kittila and George D. Blyholder, University of Arkansas.

THE PRECIPITATION OF ALUMINUM 8-HYDROXYQUINOLATE FROM MIXED SOLVENTS. Jerry L. Jones and Lester C. Howick, University of Arkansas.

THE NITROGEN ISOTOPE EFFECTS IN THE CURTIUS REARRANGEMENT OF BENZAZIDE. Joe C. Wright, University of Arkansas.

Division B.

THE KINETICS OF THE ACID CATALYZED OXYGEN-18 EXCHANGE BETWEEN p-SUBSTITUTED BENZOPHENONES AND WATER. B. C. Menon, University of Arkansas.

KINETICS OF BROMINATION OF ACETYL BROMIDE. Charles Reed, Little Rock University, and Daniel M. Mathews, Graduate Institute of Technology, University of Arkansas.

STEREOCHEMISTRY AND KINETICS OF THE HYDROGENATION OF 4-METHYL CYCLOHEXANONE. Bryan Sparks and Samuel Siegel, University of Arkansas.

THE ACID-CATALYZED REARRANGEMENTS OF SOME ALIPHATIC KETONES. Ikuo Ookuni and Arthur Fry, University of Arkansas.

AN OXYGEN-18 EXCHANGE STUDY OF THE MECHANISM OF THE REARRANGMENT OF BENZOPINACOL TO BENZOPINACOLONE. Bessie R. Sparks, Jane R. Sayler, and Arthur Fry, University of Arkansas.

Geology

Chairman: Norman F. Williams

Director Geological and Conservation Commission
State of Arkansas

SHEAR AND TENSION FRACTURE PATTERNS OF NORTHWEST ARKANSAS. John F. Gibbons, University of Arkansas.

TYPE LOCALITIES IN WASHINGTON COUNTY, ARKANSAS. Leo C. Carr, University of Arkansas.

GEOLOGICAL IMPLICATIONS OF SOIL MECHANICS. James H. Quinn, University of Arkansas.

PETROGRAPHY OF AN EXPLOSION BRECCIA NEAR BENTON, ARKANSAS. Kern C. Jackson, University of Arkansas.

NICKEL OCCURRENCES IN SOAPSTONE DEPOSITS, SALINE COUNTY, ARKANSAS. Philip J. Sterling, Arkansas Geological and Conservation Commission.

Arkansas Academy of Science Proceedings

SOME OF THE MORE UNUSUAL GEOLOGICAL PHENOMENA IN THE EASTERN OUACHITAS — SOUTHEASTERN ARKANSAS VALLEY REGION. Charles G. Stone, Arkansas Geological and Conservation Commission.

History and Political Science

Chairman: Keith S. Peterson

University of Arkansas

THE POLITICAL PHILOSOPHY OF SUBHAS CHANDRA BOSE, BENGALI REVOLUTIONARY NATIONALIST, 1897-1945. Robert L. Bock, Southern State College.

NATIONAL TRENDS IN THE PUBLIC CARE OF DEPENDENT CHILDREN, 1900-1935. Foy Lisenby, Arkansas A & M College.

OBSERVATIONS ON SIMON BOLIVAR BY BAPTIS IRVINE, 1819. John C. Pine, University of Arkansas.

TOWARD A MORE REALISTIC EVALUATION OF THE UNITED NATIONS. Gene E. Rainey, Harding College.

Mathematics

Chairman: O. L. Hughes

Arkansas State Teachers College

TRANSITIVE CONTINUOUS FUNCTIONS FROM THE UNIT INTERVAL INTO ITSELF. Glen Haddock, Arkansas College.

Physics

Chairman: M. L. Lawson

Harding College

THE VAN DE GRAAFF ACCELERATOR. Everett H. Cathey, Jr., Veterans Hospital, Little Rock.

THE REGIONAL COUNSELOR PROGRAM IN PHYSICS. Paul C. Sharrah, University of Arkansas.

THE STRUCTURE OF LIQUID MERCURY. G. T. Clayton, University of Arkansas.

A SOAP BUBBLE DEMONSTRATION. Harmon Brown, Harding College.

THE DESIGN AND OPERATION OF MECHANICAL CALCULATORS. Victor Higgins, Remington Rand Corporation.